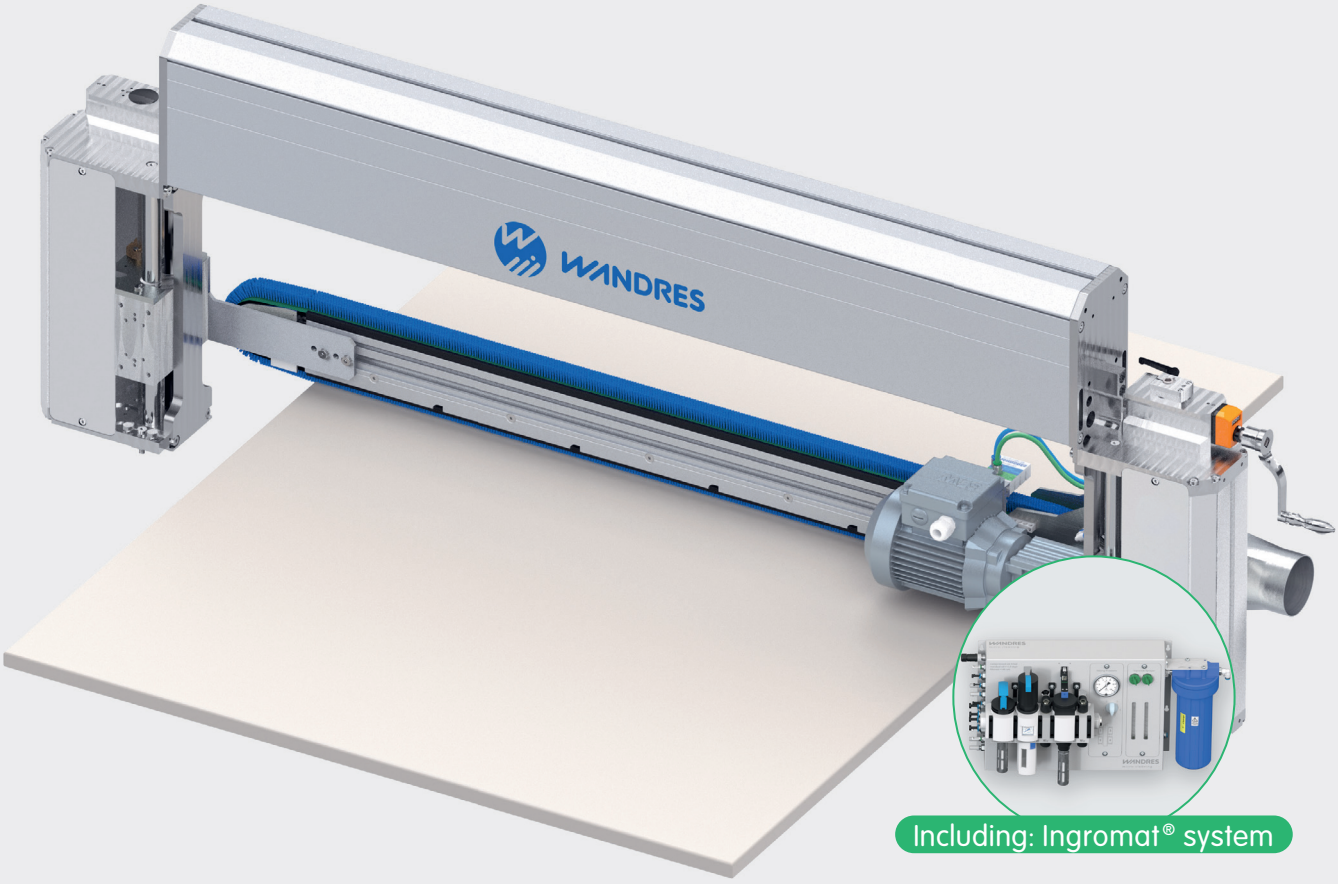
C-Line / G-Line / B-Line

Combi Sword Brush Una H-X 111



For the cleaning of furniture panels, wooden boards, plastic and flat glass sheets as well as blanks

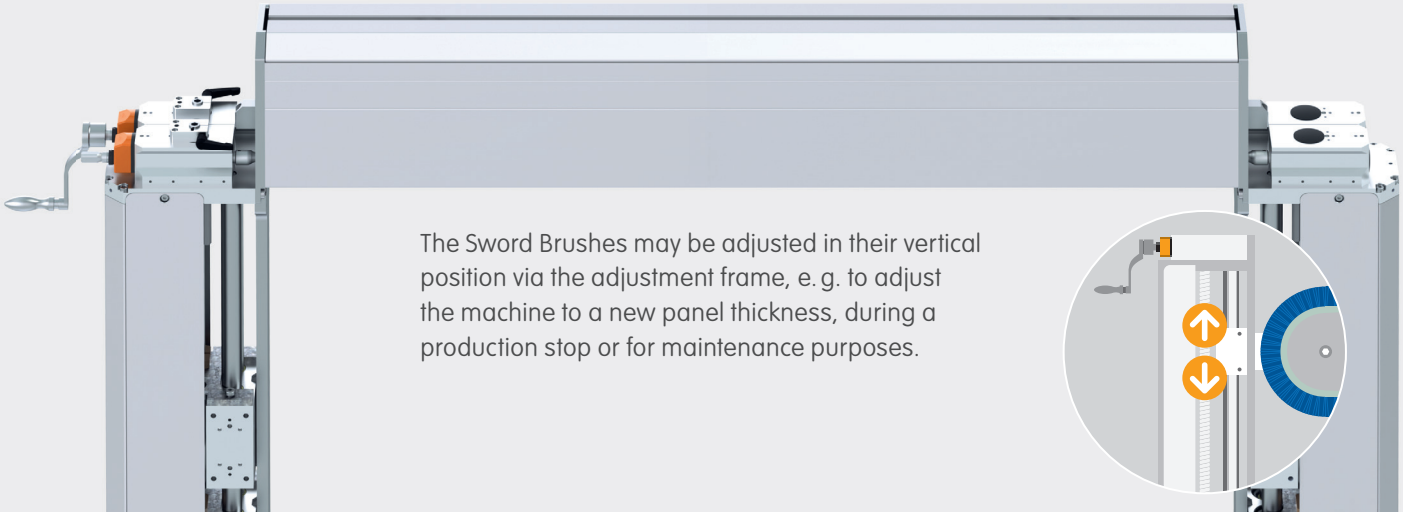
- One-sided cleaning
- Micro-moistening
- Height adjustment
- Pressure buffer

Surface Cleaning Technology

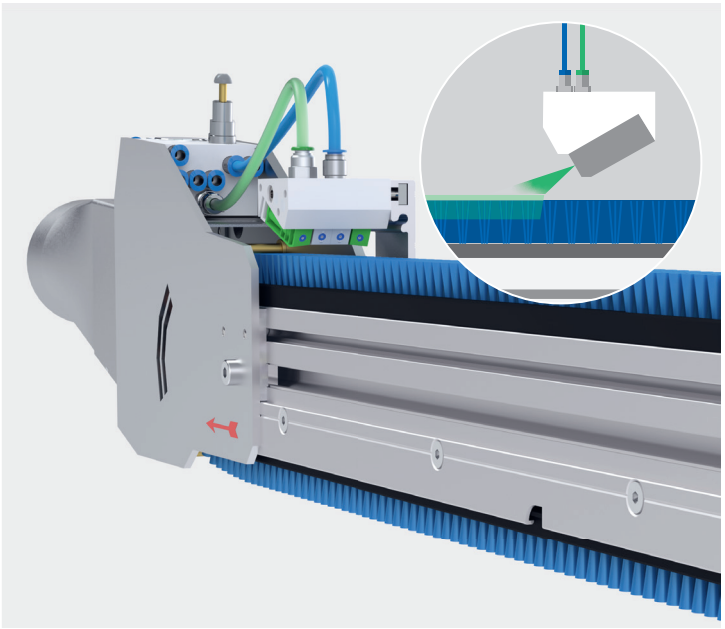
WANDRES

Adjustment

VEG 130



The Sword Brushes may be adjusted in their vertical position via the adjustment frame, e. g. to adjust the machine to a new panel thickness, during a production stop or for maintenance purposes.



Micro-moistening

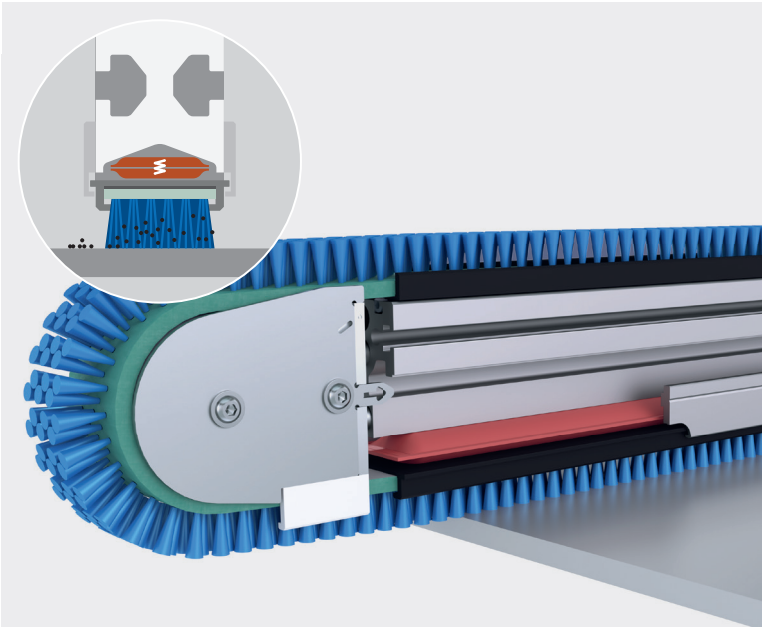
Ingromat® sprayer

The sprayer applies a thin film of the antistatic cleaning agent Ingromat® in running direction onto the filament tips of the linear brush. Ingromat® is food-safe, in conformity with FDA regulations and reduces static charges on surfaces. The micro-moistening causes even very fine dust particles to cling to the brush filaments that transport them towards the suction system. The subject surface will remain dry during the cleaning process.

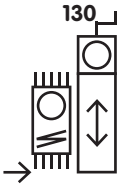
Consistent wiping pressure

Pressure buffer

The linear brush is mounted flexibly on a pressure buffer. This pressure buffer compensates for any material unevennesses and variations in the material's thickness of up to +/– 2 mm. Brush filaments are not bent excessively, they remain in a vertical position in relation to the surface. This provides for a consistent wiping pressure onto the material surface and a premium cleaning result.

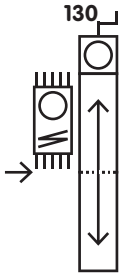


Technical details and dimensions



Una H-X 111/350

with short column
(Y = 350 mm)



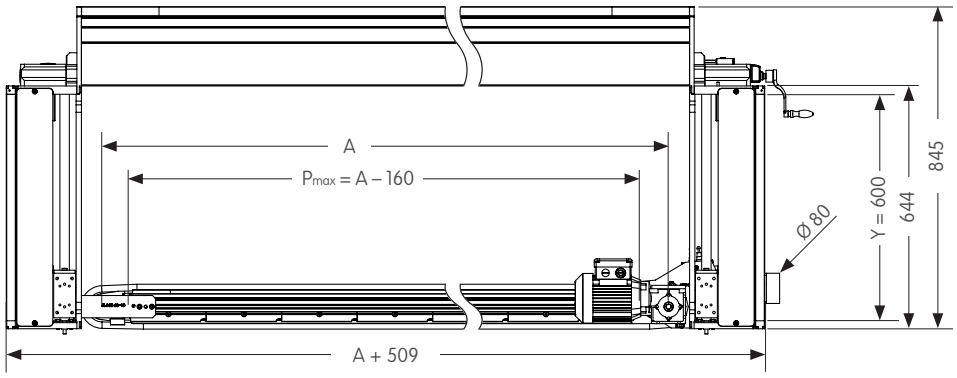
Una H-X 111/600

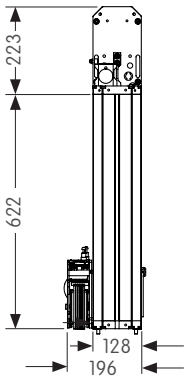
with long column
(Y = 600 mm)

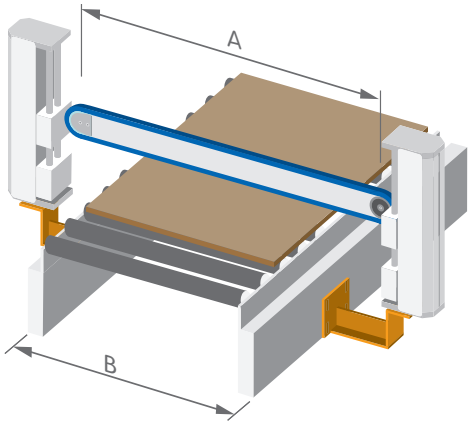
Sword Brush® BIX 51/1M/A with pressure buffer

Ingromat® system for the micro-moistening of the brush filaments including a regulator and filter unit IR 100

Adjustment frame VEG 130
Optionally with electrical height adjustment HVE, optionally with pneumatic quick adjustment HVP







A	Nominal width
P_{max}	max. width of panel = A – 160 mm
Y	Nominal measure of adjustment frame
B	Width of roller conveyor

When integrating into a roller conveyor with our standard mounting kit, the following applies
A = B + 300 mm (–40/+25 mm)

A in mm	2300	2500	2700	2750	2800	2900	3000	3100
A in inches (rounded)	91	98	106	108	110	114	118	122

3200	3400	3500	3750	4000	4300
126	134	138	148	157	169

Technical data

Electrical details	
Sword Brush® drive motor	1 x 0.25 kW SEW motor, IP 54, UL compatible
Main valve (at IR unit)	2/2 directional valve; 1 x 24 V DC; 1.5 W
Electrical height adjustment HVE (option)	Motor 24 V DC; 150 W (AG02); 35 W (PSE); control via PLC
Pneumatic quick adjustment HVP (option)	5/3 directional valve: 2 x 24 V DC; 1.08 W
Pneumatic details	
Compressed air quality	Purity classes compressed air ISO 8573-1:2010 [6:4:3] (at 20 °C; 1 bar) filtered (CP ≤ 5 mg/m³), dry (pressure dew point ≤ 3 °C), oil-free (CO ≤ 1 mg/m³)
Compressed air connection	1 x 1/2" female thread; 6 bar
Total compressed air consumption	235 l/min (with standard SR nozzles at 1.013 bar and 20°C) 330 l/min (with reinforced SR nozzles at 1.013 bar and 20°C)
Fluidics	
Ingromat® hose connection	1 x Ø 8 mm
Ingromat® consumption	0.2 l/h – 0.8 l/h
Suction	
Suction connection	1 x Ø 80 mm
Suction capacity	1 x 540 m³/h
Operating parameter	min. –500 Pa vacuum
Linear brush	
Type of linear brush	Quadro R6
Filament material	Polyamid 6.12
Filament length	17 mm
Filament-Ø	0.127 mm
Transport speed	
Max. transport speed	100 m/min
Dimensions of subject panel	
Min. panel length	L_{min} = 240 mm
Min. panel width	P_{min} = 60 mm
Max. panel width	P_{max} = A – 160 mm

Exemplary values, the exact values can be found in the specifications.

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